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PTO/SB/08B (10-98)  
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/414,384
		Filing Date	10/07/1999
		First Named Inventor	Andrew Clark
		Group Art Unit	1615
		Examiner Name	R. Bawa
Sheet 1	of 1	Attorney Docket Number	0037.00

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
A.J.L.	6	A. MALTON ET AL., "A Comparison of In Vitro Drug Delivery from Two Multidose Powder Inhalation Devices," Eur J Clin Res, p. 177-195, (1995).	
	7	A. MALTON ET AL., "A Commpartison of In-Vitro Drug Delivery from Salbutamol Diskus and Terbutaline Tubohaler," J. Pharm. Med., p. 35-48, (1996).	
	8	NEWHOUSE ET AL., "Clickhaler (a Novel Dry Powder Inhaler) Provides Similar Bronchodilation to Pressurized Metered-Dose Inhaler, Even at Low Flow Rates," Clinical Investigation, p. 952-956, (1999).	
	9	BARROWCLIFFE ET AL., "The In-Vitro Evaluation of a Novel, Multi-Dose Dry Powder Inhaler," The Acrosol Society, p. 82-85, (1996).	
	10	PRIME ET AL., "Flow Targeting System for DPI Clinical Trials," J. Acrosol Med., p. 437, (1999).	
	11	CHRYSTYN, "The Diskus Inhaler," Clinical Drug Investigations,	
	12	GONWAY et al., "Comparison of Peak Pressure Drops by Four different Powder Inhalation Devices in Children", Ann. J. Respir. Crit. Care Med., 153, A59, (1996)	

Examiner Signature	<i>Carol J. Lee</i>	Date Considered	9/1/06
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1448B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/414,384
		Filing Date	10/07/1999
		First Named Inventor	Andrew Clark
		Group Art Unit	1615
		Examiner Name	R. Bawa
Sheet 1 of 1	Attorney Docket Number	0037.00	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
ajp	6	A. MALTON ET AL., "A Comparison of In Vitro Drug Delivery from Two Multidose Powder Inhalation Devices," Eur J Clin Res, p. 177-195, (1995).	
	7	A. MALTON ET AL., "A Comparison of In Vitro Drug Delivery from Salbutamol Diskus and Terbutaline Tubohaler," J. Pharm. Med., p. 35-48, (1996).	
	8	NEWHOUSE ET AL., "Clickhaler (a Novel Dry Powder Inhaler) Provides Similar Bronchodilation to Pressurized Metered-Dose Inhaler, Even at Low Flow Rates," Clinical Investigation, p. 952-956, (1999).	
	9	BARROWCLIFFE ET AL., "The In Vitro Evaluation of a Novel, Multi-Dose Dry Powder Inhaler," The Aerosol Society, p. 82-85, (1996).	
	10	PRIME ET AL., "Flow Targeting System for DPI Clinical Trials," J. Aerosol Med., p. 137, (1995).	
	11	CHRYSTYN, "The Diskus Inhaler," Clinical Drug Investigations.	
ajp	12	CONWAY et al., "Comparison of Peak Pressure Drops by Four different Powder Inhalation Devices in Children," Am. J. Respir. Crit. Care Med., 153, A59, (1996).	

Examiner Signature	<i>Carole J. Lan</i>	Date Considered	9/1/06
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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  <i>(Use Several Sheets if Necessary)</i>	<b>Atty Docket No.:</b> 0037.00	<b>Application No.:</b> 09/414,384
	<b>Applicant:</b> Clark et al.	
	<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
A.J.L.	E	Clark et al. "The Relationship Between Powder Inhaler Resistance and Peak Inspiratory Conditions in Healthy Volunteers- Implications for In Vitro Testing" Journal of Aerosol Medicine, vol. 6, no. 2, pp. 99-110, 1993.
	F	Hill, "Characteristics of an Active, Multiple Dose Dry Powder Inhaler" Respiratory Drug Delivery IV, pp 109-116 (1994).
	G	Delovich "Physical Principles Underlying Aerosol Therapy" Journal of Aerosol Medicine, vol. 2, no. 2, pp. 171-186, 1989.
	H	Clark "Effect of Powder Inhaler Resistance Upon Inspiratory Profiles in Health and Disease" Respiratory Drug Delivery IV, pp. 117-123, (1994).
	I	Ross et al. "Effect of Inhalation Flow Rate on the Dosing Characteristics of Dry Powder Inhaler (DPI) and Metered Dose Inhaler (MDI) Products" Journal of Aerosol Medicine, vol. 9, no. 2, pp. 215-226 (1996).
A.J.L.	J	Lawford et al. "Pressurized Aerosol Inhaler Techniques: How Important are Inhalation from Residual Volume, Inspiratory Flow Rate and the Time Interval Between Puffs?" J. Dis. Chest, 77, pp. 276-281 (1983).

<b>Examiner:</b> <i>Carol J. Law</i>	<b>Date Considered:</b> 9/1/06
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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**Complete if Known**

*(use as many sheets as necessary)*

Sheet	1	of	1
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Application Number	09/414,384
Filing Date	10/07/1999
First Named Inventor	Andrew Clark
Group Art Unit	1615
Examiner Name	
Attorney Docket Number	0037 00

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
Sheet <span style="border: 1px solid black; padding: 0 5px;">1</span> of <span style="border: 1px solid black; padding: 0 5px;">4</span>		Application Number <span style="border: 1px solid black; padding: 0 20px;">09/414,384</span>	Filing Date <span style="border: 1px solid black; padding: 0 20px;">10/07/1999</span>
		First Named Inventor <span style="border: 1px solid black; padding: 0 20px;">Andrew Clark</span>	Group Art Unit <span style="border: 1px solid black; padding: 0 20px;">1619</span>
		Examiner Name <span style="border: 1px solid black; padding: 0 20px;"></span>	Attorney Docket Number <span style="border: 1px solid black; padding: 0 20px;">0037.00</span>



U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	AA	4,338,931		Cavazza	07/13/1982	
	AB	4,907,583		Wetterlin et al.	03/13/1990	
	AC	4,926,852		Zoltan et al.	05/22/1990	
	AD	4,955,371		Zamba et al.	09/11/1990	
	AE	4,991,745		Brown	02/12/1991	
	AF	5,027,806		Zoltan et al.	07/02/1991	
	AG	5,033,655		Brown	07/23/1991	
	AH	5,042,472		Bunin	08/27/1991	
	AI	5,161,524		Evans	11/10/1992	
	AJ	5,184,641		Kuhn	02/09/1993	
	AK	5,201,308		Newhouse	04/13/1993	
	AL	5,213,236		Brown et al.	05/25/1993	
	AM	5,339,995		Brown et al.	08/23/1994	
	AN	5,377,877		Brown et al.	01/03/1995	
	AO	5,385,140		Smith	01/31/1995	
	AP	5,409,144		Brown	04/25/1995	
	AQ	5,435,301		Herold et al.	07/25/1995	
	AR	5,437,271		Hodson et al.	08/01/1995	
	AS	5,439,143		Brown et al.	08/08/1995	
	AT	5,447,151		Bruna et al.	09/05/1995	

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
002	CL	EP	0,714,314		Fisons plc	10/14/1998		
	CM	EP	0,805,696		Direct-Haler A/S	03/15/2000		
	CN	EP	0,808,635		Bespak PLC	11/26/1997		
	CO	wo	91/14422		MN Mining & Mfg.Co	02/10/1991		
	CP	wo	96/09085		Inhale Therapeutic	02/03/1996		
002	CQ	wo	96/32149		Inhale Therapeutic	02/10/1996		

Examiner Signature <span style="border: 1px solid black; padding: 0 50px;"><i>Carrie J. Lem</i></span>	Date Considered <span style="border: 1px solid black; padding: 0 20px;">9/1/06</span>
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<sup>1</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Substitute for form 1449A/PTO

(use as many sheets as necessary)

Sheet	2	of	4
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**Complete if Known**

Application Number	09/414,384
Filing Date	10/07/1999
First Named Inventor	Andrew Clark
Group Art Unit	1619
Examiner Name	
Attorney Docket Number	0037.00

U.S. PATENT DOCUMENT						
Examiner Initials	Cite No. 1	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code? (if known)			
afg	AU	5,458,135		Patton et al.	10/17/1995	
	AV	5,483,954		Mecikalski	01/16/1996	
	AW	5,513,630		Century	05/07/1996	
	AX	5,529,059		Armstrong et al.	06/25/1996	
	AY	5,533,505		Kallstrand et al.	07/09/1996	
	AZ	5,542,412		Century	08/06/1996	
	BA	5,568,807		Mecikalski	10/29/1996	
	BB	5,617,845		Poss et al.	04/08/1997	
	BC	5,653,223		Pruitt	08/05/1997	
	BD	5,654,007		Johnson et al.	08/05/1997	
	BE	5,655,520		Howe et al.	08/12/1997	
	BF	5,692,496		Casper et al.	12/02/1997	
	BG	5,699,789		Hendricks	12/23/1997	
	BH	5,724,959		McAughey et al.	03/10/1998	
	BI	5,727,546		Clarke et al.	03/17/1998	
	BJ	5,740,794		Smith et al.	04/21/1998	
	BK	5,775,320		Patton et al.	07/07/1998	
	BL	5,785,049		Smith et al.	07/28/1998	
afg	BM	5,813,401		Radcliff et al.	09/29/1998	
	BO	5,826,571		Casper et al.	10/27/1998	

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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

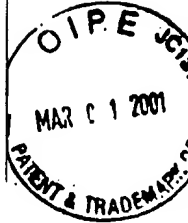
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Sheet <span style="border: 1px solid black; padding: 0 5px;">3</span> of <span style="border: 1px solid black; padding: 0 5px;">4</span>		Application Number <span style="border: 1px solid black; padding: 0 20px;">09/414,384</span>	Filing Date <span style="border: 1px solid black; padding: 0 20px;">10/07/1999</span>
		First Named Inventor <span style="border: 1px solid black; padding: 0 20px;">Andrew Clark</span>	Group Art Unit <span style="border: 1px solid black; padding: 0 20px;">1619</span>
		Examiner Name <span style="border: 1px solid black; padding: 0 20px;"></span>	Attorney Docket Number <span style="border: 1px solid black; padding: 0 20px;">0037.00</span>



U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	BP	5,826,633		Parks et al.	10/27/1998	
	BO	5,875,776		Vaghefi	03/02/1999	
	BR	5,881,719		Gottenauer et al.	03/16/1999	
	BS	5,896,853		Howlett	04/27/1999	
	BT	5,921,237		Eisele et al.	07/13/1999	
	BU	5,922,354		Johnson et al.	07/13/1999	
	BV	5,975,076		Yianneskis et al.	11/02/1999	
	BW	5,983,893		Wetterlin	11/16/1999	
	BX	5,988,163		Casper et al.	11/23/1999	
	BY	6,006,747		Eisele et al.	12/28/1999	
	BZ	6,012,454		Hodson et al.	01/11/2000	
	CA	6,029,661		Whaley et al.	02/29/2000	
	CB	6,055,979		Fuchs	05/02/2000	
	CC	6,055,980		Mecikalski et al.	05/02/2000	
	CD	6,065,472		Anderson et al.	05/23/2000	
	CE	6,070,573		Howe et al.	06/06/2000	
	CF	6,089,228		Smith et al.	07/18/2000	
	CG	6,102,036		Slutsky et al.	08/15/2000	
	CH	6,105,574		Jahnsson	08/22/2000	
	CI	6,109,261		Clarke et al.	08/29/2000	

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Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				

Examiner Signature		Date Considered	<span style="font-size: 1.5em;">9/1/06</span>
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Attorney Docket Number	0037.00
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**Form 1449 (Modified)**  
**Information Disclosure Statement By Applicant**  
*(Use Several Sheets if Necessary)*

SEP 28 2001  
 PATENT & TRADEMARK OFFICE

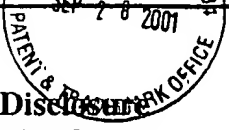
<b>Atty Docket No.:</b> 0037.00	<b>Application No.:</b> 09/414,384
<b>Applicant:</b> Clark et al.	
<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761

**U.S. Patent Documents**

Examiner Initial	Patent No.	Date	Patentee	Class	Sub-Class	Filing Date
A.J.L.	2,587,215	2-26-1952	Priestly	—	—	
	3,837,341	9-24-1974	Bell	—	—	
	4,274,404	6-23-1981	Molzan et al.	—	—	
	4,442,856	4-17-1984	Betz	—	—	
	4,533,137	8-6-1985	Sonne	—	—	
	5,040,527	8-20-1991	Larson et al.	—	—	
	5,042,467	8-27-1991	Foley	—	—	
	5,301,666	4-12-1994	Lerk et al.	—	—	
	5,408,994	4-25-1995	Wass et al.	—	—	
	5,522,380	6-4-1996	Dwork	—	—	
	5,586,550	12-24-1996	Ivri et al.	—	—	
	5,823,183	10-20-1998	Casper et al.	—	—	
	5,855,202	1-5-1999	Andrade	—	—	
	5,884,620	3-23-1999	Gonda et al.	—	—	
	5,941,240	8-24-1999	Gonda et al.	—	—	
	6,029,663	2-29-2000	Eisele et al.	—	—	
	6,076,523	6-20-2000	Jones et al.	—	—	
	6,095,134	8-1-2000	Sievers et al.	—	—	
	6,116,238	9-12-2000	Jackson et al.	—	—	
	6,138,673	10-31-2000	Shepherd	—	—	
A.J.L.	6,142,146	11-7-2000	Abrams et al.	—	—	

<b>Examiner:</b> <i>Carroll Lee</i>	<b>Date Considered:</b> 9/1/06
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Examiner: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



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	<b>Applicant:</b> Clark et al.	
	<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication						
A.D.L.	A	WO97/40819	11-6-1997	PCT	_____	_____	_____	_____
A.D.L.	B	WO00/21594	4-20-2000	PCT	_____	_____	_____	_____
A.D.L.	C	WO99/46055	6-16-1999	PCT	_____	_____	_____	_____
A.D.L.	D	WO98/32479	7-30-1998	PCT	_____	_____	_____	_____
A.D.L.	E	1,598,053	9-16-1981	Great Britain	_____	_____	_____	_____

<b>Examiner:</b> <i>Baron J. Lee</i>	<b>Date Considered:</b> <i>9/1/06</i>
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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 1

**Complete if Known**

Application Number	09/414,384
Filing Date	10/07/1999
First Named Inventor	Andrew Clark
Group Art Unit	1615
Examiner Name	Unassigned
Attorney Docket Number	0037.00

## U.S. PATENT DOCUMENTS

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**FOREIGN PATENT DOCUMENTS**

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**Examiner  
Signature**

Baron J. Lem

Date Considered

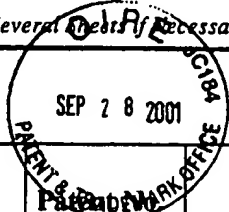
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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  <i>(Use Several Copies If Necessary)</i>	<b>Atty Docket No.:</b> 0037.00	<b>Application No.:</b> 09/414,384
	<b>Applicant:</b> Clark et al.	
	<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761



**U.S. Patent Documents**

Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
A.J.L.	3,788,310	1-29-1974	Fleischmann	—	—	
	4,106,503	8-15-1978	Rosenthal et al.	—	—	
	4,484,577	11-27-1984	Sackner et al.	—	—	
	4,627,432	12-9-1986	Newell et al.	—	—	
	4,677,975	7-7-1987	Edgar et al.	—	—	
	4,778,054	10-18-1988	Newell et al.	—	—	
	4,811,731	3-14-1989	Newell et al.	—	—	
	5,284,133	2-8-1994	Burns et al.	—	—	
	5,419,315	5-30-1995	Rubsamen	—	—	
	5,558,085	9-24-1996	Rubsamen et al.	—	—	
	5,622,166	4-22-1997	Eisele et al.	—	—	
	5,692,492	12-2-1997	Bruna et al.	—	—	
	5,873,358	2-23-1999	Gonda et al.	—	—	
	5,993,421	11-30-1999	Kriesel	—	—	
A.J.L.	6,085,753	7-11-2000	Gonda et al.	—	—	

<b>Examiner:</b> <i>Carroll Lewis</i>	<b>Date Considered:</b> 9/1/06
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Form 1449 (Modified)

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Attorney Docket No.: 0037.00

Application No.: 09/414,384

Information Disclosure Statement By Applicant

Applicant: Clark et al.

Filing Date: 10-7-99

Group: 3761

(Use Several Sheets if Necessary)

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
							Yes	No
A.P.L.	A	WO99/27987	6-10-1999	PCT	—	—		
A.P.L.	B	WO95/34337	12-21-1995	PCT	—	—		
A.P.L.	C	WO99/47196	9-23-1999	PCT	—	—		
A.P.L.	D	WO95/24183	9-14-95	PCT	—	—		

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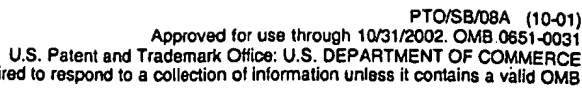
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Substitute for form 1449A/PTO

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Sheet 1 of 1

**Complete if Known**

Application Number	09/414,384
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<b>Filing Date</b>	10/07/1999
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First Named Inventor	Andrew Clark
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Art Unit	3236
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Examiner Name	A. Lewis
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Attorney Docket Number	0037.00
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## U.S. PATENT DOCUMENTS

## FOREIGN PATENT DOCUMENTS

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Signature**

Garrett Lee

**Date**

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Substitute for form 1449B/PTO		<b>Complete if Known</b>			
		Application Number	09/414,384		
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Filing Date	10/07/1999		
		First Named Inventor	Andrew Clark		
		Group Art Unit	1615		
		Examiner Name	R. Bawa		
Sheet	1	of	1	Attorney Docket Number	0037.00

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>	
A.J.L.	6	A. MALTON ET AL., "A Comparison of In Vitro Drug Delivery from Two Multidose Powder Inhalation Devices," Eur J Clin Res, p. 177-195, (1995).		
	7	A. MALTON ET AL., "A Comparison of In Vitro Drug Delivery from Salbutamol Diskus and Terbutaline Tubohaler," J. Pharm. Med., p. 35-48, (1996).		
	8	NEWHOUSE ET AL., "Clickhaler (a Novel Dry Powder Inhaler) Provides Similar Bronchodilation to Pressurized Metered-Dose Inhaler, Even at Low Flow Rates," Clinical Investigation, p. 952-956, (1999).		
	9	BARROWCLIFFE ET AL., "The In-Vitro Evaluation of a Novel, Multi-Dose Dry Powder Inhaler," The Aerosol Society, p. 82-85, (1996).		
	10	PRIME ET AL., "Flow Targeting System for DPI Clinical Trials," J. Aerosol Med., p. 437, (1999).		
	11	CHRYSTYN, "The Diskus Inhaler," Clinical Drug Investigations.		
	12	GONWAY et al., "Comparison of Peak Pressure Drops by Four different Powder Inhalation Devices in Children", Am. J. Respir. Crit. Care Med., 153, A59, (1996).		

Examiner Signature	<i>Carol J. L...</i>	Date Considered	9/1/06
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Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		Application Number	09/414,384
		Filing Date	10/07/1999
		First Named Inventor	Andrew Clark
		Group Art Unit	1615
		Examiner Name	R. Bawa
Sheet 1	of 1	Attorney Docket Number	0037.00

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
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	7	A. MALTON ET AL., "A Comparison of In Vitro Drug Delivery from Salbutamol Diskus and Terbutaline Tubohaler," J. Pharm. Med., p. 35-48, (1996).	
	8	NEWHOUSE ET AL., "Clickhaler (a Novel Dry Powder Inhaler) Provides Similar Bronchodilation to Pressurized Metered Dose Inhaler, Even at Low Flow Rates," Clinical Investigation, p. 952-956, (1999).	
	9	BARROWCLIFFE ET AL., "The In Vitro Evaluation of a Novel, Multi-Dose Dry Powder Inhaler," The Aerosol Society, p. 82-85, (1996).	
	10	PRIME ET AL., "Flow Targeting System for DPI Clinical Trials," J. Aerosol Med., p. 137, (1995).	
	11	CHRYSTYN, "The Diskus Inhaler," Clinical Drug Investigations.	
AJL	12	CONWAY et al., "Comparison of Peak Pressure Drops by Four different Powder Inhalation Devices in Children," Am. J. Respir. Crit. Care Med., 153, A59, (1996)	

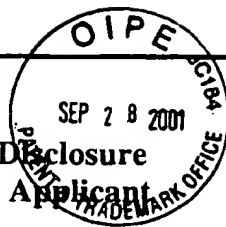
Examiner Signature	<i>Baran J. Lenn</i>	Date Considered	9/1/06
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<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  <i>(Use Several Sheets if Necessary)</i>	<b>Atty Docket No.:</b> 0037.00	<b>Application No.:</b> 09/414,384
	<b>Applicant:</b> Clark et al.	
	<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761



**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication
A.L.L.	E	Clark et al. "The Relationship Between Powder Inhaler Resistance and Peak Inspiratory Conditions in Healthy Volunteers- Implications for In Vitro Testing" Journal of Aerosol Medicine, vol. 6, no. 2, pp. 99-110, 1993.
	F	Hill, "Characteristics of an Active, Multiple Dose Dry Powder Inhaler" Respiratory Drug Delivery IV, pp 109-116 (1994).
	G	Delovich "Physical Principles Underlying Aerosol Therapy" Journal of Aerosol Medicine, vol. 2, no. 2, pp. 171-186, 1989.
	H	Clark "Effect of Powder Inhaler Resistance Upon Inspiratory Profiles in Health and Disease" Respiratory Drug Delivery IV, pp. 117-123, (1994).
	I	Ross et al. "Effect of Inhalation Flow Rate on the Dosing Characteristics of Dry Powder Inhaler (DPI) and Metered Dose Inhaler (MDI) Products" Journal of Aerosol Medicine, vol. 9, no. 2, pp. 215-226 (1996).
A.L.L.	J	Lawford et al. "Pressurized Aerosol Inhaler Techniques: How Important are Inhalation from Residual Volume, Inspiratory Flow Rate and the Time Interval Between Puffs?" J. Dis. Chest, 77, pp. 276-281 (1983).

<b>Examiner:</b> <i>Barbara Law</i>	<b>Date Considered:</b> 9/1/06
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 APPLICANT

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Application Number	09/414,384
Filing Date	10/07/1999
First Named Inventor	Andrew Clark
Group Art Unit	1615
Examiner Name	
Attorney Docket Number	0037.00

Sheet 1 of 1

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George L. Fox

**Considered**

9/1/06

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Substitute for form 1449A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		Application Number	09/414,384
		Filing Date	10/07/1999
		First Named Inventor	Andrew Clark
		Group Art Unit	1619
		Examiner Name	
		Attorney Docket Number	0037.00
Sheet	4	of	4

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Examiner Signature	<i>Harold L. Dunn</i>	Date Considered	9/1/06
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<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

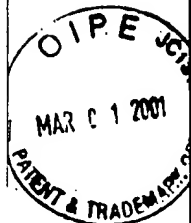
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Application Number	09/414,384		
Filing Date	10/07/1999		
First Named Inventor	Andrew Clark		
Group Art Unit	1619		
Examiner Name			
Attorney Docket Number	0037.00		



U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	BP	5,826,633		Parks et al.	10/27/1998	
	BQ	5,875,776		Vaghefi	03/02/1999	
	BR	5,881,719		Gottenauer et al.	03/16/1999	
	BS	5,896,853		Howlett	04/27/1999	
	BT	5,921,237		Eisele et al.	07/13/1999	
	BU	5,922,354		Johnson et al.	07/13/1999	
	BV	5,975,076		Yianneskis et al.	11/02/1999	
	BW	5,983,893		Wetterlin	11/16/1999	
	BX	5,988,163		Casper et al.	11/23/1999	
	BY	6,006,747		Eisele et al.	12/28/1999	
	BZ	6,012,454		Hodson et al.	01/11/2000	
	CA	6,029,661		Whaley et al.	02/29/2000	
	CB	6,055,979		Fuchs	05/02/2000	
	CC	6,055,980		Mecikalski et al.	05/02/2000	
	CD	6,065,472		Anderson et al.	05/23/2000	
	CE	6,070,573		Howe et al.	06/06/2000	
	CF	6,089,228		Smith et al.	07/18/2000	
	CG	6,102,036		Slutsky et al.	08/15/2000	
	CH	6,105,574		Jahnsson	08/22/2000	
	CI	6,109,261		Clarke et al.	08/29/2000	

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>2</sup> (if known)				

Examiner Signature		Date Considered	9/1/06
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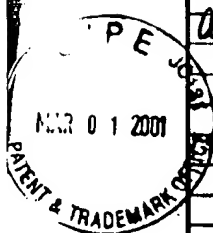
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Sheet	2	of	4
		Application Number	09/414,384
		Filing Date	10/07/1999
		First Named Inventor	Andrew Clark
		Group Art Unit	1619
		Examiner Name	
		Attorney Docket Number	0037.00



U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
	AU	5,458,135		Patton et al.	10/17/1995	
	AV	5,483,954		Mecikalski	01/16/1996	
	AW	5,513,630		Century	05/07/1996	
	AX	5,529,059		Armstrong et al.	06/25/1996	
	AY	5,533,505		Kallstrand et al.	07/09/1996	
	AZ	5,542,412		Century	08/06/1996	
	BA	5,568,807		Mecikalski	10/29/1996	
	BB	5,617,845		Poss et al.	04/08/1997	
	BC	5,653,223		Pruitt	08/05/1997	
	BD	5,654,007		Johnson et al.	08/05/1997	
	BE	5,655,520		Howe et al.	08/12/1997	
	BF	5,692,496		Casper et al.	12/02/1997	
	BG	5,699,789		Hendricks	12/23/1997	
	BH	5,724,959		McAughey et al.	03/10/1998	
	BI	5,727,546		Clarke et al.	03/17/1998	
	BJ	5,740,794		Smith et al.	04/21/1998	
	BK	5,775,320		Patton et al.	07/07/1998	
	BL	5,785,049		Smith et al.	07/28/1998	
	BM	5,813,401		Radcliff et al.	09/29/1998	
	BO	5,826,571		Casper et al.	10/27/1998	

FOREIGN PATENT DOCUMENTS								
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>5</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				

Examiner Signature		Date Considered	9/1/06
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Substitute for form 1449A/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>	
Application Number		09/414,384	
Filing Date		10/07/1999	
First Named Inventor		Andrew Clark	
Group Art Unit		1619	
Examiner Name			
Attorney Docket Number		0037.00	
Sheet 1	of 4		



U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
AS	AA	4,338,931		Cavazza	07/13/1982	
	AB	4,907,583		Wetterlin et al.	03/13/1990	
	AC	4,926,852		Zoltan et al.	05/22/1990	
	AD	4,955,371		Zamba et al.	09/11/1990	
	AE	4,991,745		Brown	02/12/1991	
	AF	5,027,806		Zoltan et al.	07/02/1991	
	AG	5,033,655		Brown	07/23/1991	
	AH	5,042,472		Bunin	08/27/1991	
	AI	5,161,524		Evans	11/10/1992	
	AJ	5,184,641		Kuhn	02/09/1993	
	AK	5,201,308		Newhouse	04/13/1993	
	AL	5,213,236		Brown et al.	05/25/1993	
	AM	5,339,995		Brown et al.	08/23/1994	
	AN	5,377,877		Brown et al.	01/03/1995	
	AO	5,385,140		Smith	01/31/1995	
	AP	5,409,144		Brown	04/25/1995	
	AQ	5,435,301		Herold et al.	07/25/1995	
	AR	5,437,271		Hodson et al.	08/01/1995	
	AS	5,439,143		Brown et al.	08/08/1995	
AS	AT	5,447,151		Bruna et al.	09/05/1995	

FOREIGN PATENT DOCUMENTS							
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>				
AS	CL	EP	0,714,314	Fisons plc	10/14/1998		
	CM	EP	0,805,696	Direct-Haler A/S	03/15/2000		
	CN	EP	0,808,635	Bespak PLC	11/26/1997		
	CO	wo	91/14422	MN Mining & Mfg. Co	02/10/1991		
	CP	wo	96/09085	Inhale Therapeutic	02/03/1996		
AS	CQ	wo	96/32149	Inhale Therapeutic	02/10/1996		

Examiner Signature: <i>Baron &amp; Lam</i>	Date Considered: 9/1/06
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Form 1449 (Modified)

SEP 2 8 2001

Attorney Docket No.: 0037.00

Application No.: 09/414,384

Information Disclosure Statement By Applicant

(Use Several Sheets if Necessary)

Applicant: Clark et al.

Filing Date: 10-7-99

Group: 3761

Foreign Patent or Published Foreign Patent Application

Examiner Initial	No.	Document No.	Publication Date	Country or Patent Office	Class	Sub-class	Translation	
Yes	No							
A.J.L.	A	WO99/27987	6-10-1999	PCT	—	—		
A.J.L.	B	WO95/34337	12-21-1995	PCT	—	—		
A.J.L.	C	WO99/47196	9-23-1999	PCT	—	—		
A.J.L.	D	WO95/24183	9-14-95	PCT	—	—		

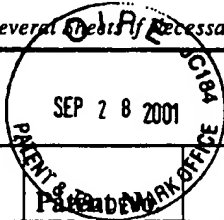
Examiner: *Caron J. Lem*

Date Considered: 9/1/06

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<b>Form 1449 (Modified)</b>  <b>Information Disclosure Statement By Applicant</b>  <i>(Use Several Sheets If Necessary)</i>	<b>Atty Docket No.:</b> 0037.00	<b>Application No.:</b> 09/414,384
	<b>Applicant:</b> Clark et al.	
	<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761



### U.S. Patent Documents

Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
A.L.	3,788,310	1-29-1974	Fleischmann	—	—	
	4,106,503	8-15-1978	Rosenthal et al.	—	—	
	4,484,577	11-27-1984	Sackner et al.	—	—	
	4,627,432	12-9-1986	Newell et al.	—	—	
	4,677,975	7-7-1987	Edgar et al.	—	—	
	4,778,054	10-18-1988	Newell et al.	—	—	
	4,811,731	3-14-1989	Newell et al.	—	—	
	5,284,133	2-8-1994	Burns et al.	—	—	
	5,419,315	5-30-1995	Rubsamen	—	—	
	5,558,085	9-24-1996	Rubsamen et al.	—	—	
	5,622,166	4-22-1997	Eisele et al.	—	—	
	5,692,492	12-2-1997	Bruna et al.	—	—	
	5,873,358	2-23-1999	Gonda et al.	—	—	
	5,993,421	11-30-1999	Kriesel	—	—	
	6,085,753	7-11-2000	Gonda et al.	—	—	

<b>Examiner:</b> <i>Carroll Lewis</i>	<b>Date Considered:</b> 9/1/06
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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b> <table border="1"> <tr> <td>Application Number</td> <td>09/414,384</td> </tr> <tr> <td>Filing Date</td> <td>10/07/1999</td> </tr> <tr> <td>First Named Inventor</td> <td>Andrew Clark</td> </tr> <tr> <td>Group Art Unit</td> <td>1615</td> </tr> <tr> <td>Examiner Name</td> <td>Unassigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>0037.00</td> </tr> </table>		Application Number	09/414,384	Filing Date	10/07/1999	First Named Inventor	Andrew Clark	Group Art Unit	1615	Examiner Name	Unassigned	Attorney Docket Number	0037.00
Application Number	09/414,384														
Filing Date	10/07/1999														
First Named Inventor	Andrew Clark														
Group Art Unit	1615														
Examiner Name	Unassigned														
Attorney Docket Number	0037.00														
Sheet	1	of	1												

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Examiner Signature	<i>Carol L. Lewis</i>	Date Considered	9/1/06
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**INFORMATION DISCLOSURE  
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Sheet 1 of 1

**Complete if Known**

Application Number	09/414,384
Filing Date	10/07/1999
First Named Inventor	Andrew Clark
Group Art Unit	1615
Examiner Name	Unassigned
Attorney Docket Number	0037.00

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**Examiner  
Signature**

Baran Lenn

Date  
Considered

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<b>Form 1449 (Modified)</b> <b>Information Disclosure Statement By Applicant</b> <i>(Use Several Sheets if Necessary)</i>	<b>Atty Docket No.:</b> 0037.00	<b>Application No.:</b> 09/414,384
	<b>Applicant:</b> Clark et al.	
	<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761

**Other Documents**

Examiner Initial	No.	Author, Title, Date, Place (e.g. Journal) of Publication						
A.J.L.	A	WO97/40819	11-6-1997	PCT	—	—		
A.J.L.	B	WO00/21594	4-20-2000	PCT	—	—		
A.J.L.	C	WO99/46055	6-16-1999	PCT	—	—		
A.J.L.	D	WO98/32479	7-30-1998	PCT	—	—		
A.J.L.	E	1,598,053	9-16-1981	Great Britain	—	—		

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	<b>Applicant:</b> Clark et al.	
	<b>Filing Date:</b> 10-7-99	<b>Group:</b> 3761

**U.S. Patent Documents**

Examiner Initial	Patent No.	Date	Patentee	Class	Sub- Class	Filing Date
A.J.L.	2,587,215	2-26-1952	Priestly	—	—	
	3,837,341	9-24-1974	Bell	—	—	
	4,274,404	6-23-1981	Molzan et al.	—	—	
	4,442,856	4-17-1984	Betz	—	—	
	4,533,137	8-6-1985	Sonne	—	—	
	5,040,527	8-20-1991	Larson et al.	—	—	
	5,042,467	8-27-1991	Foley	—	—	
	5,301,666	4-12-1994	Lerk et al.	—	—	
	5,408,994	4-25-1995	Wass et al.	—	—	
	5,522,380	6-4-1996	Dwork	—	—	
	5,586,550	12-24-1996	Ivri et al.	—	—	
	5,823,183	10-20-1998	Casper et al.	—	—	
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	5,884,620	3-23-1999	Gonda et al.	—	—	
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	6,029,663	2-29-2000	Eisele et al.	—	—	
	6,076,523	6-20-2000	Jones et al.	—	—	
	6,095,134	8-1-2000	Sievers et al.	—	—	
	6,116,238	9-12-2000	Jackson et al.	—	—	
A.J.L.	6,138,673	10-31-2000	Shepherd	—	—	
	6,142,146	11-7-2000	Abrams et al.	—	—	

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